Operating Instructions

Digital Video Recorder Models: DLR3-04/xxx





Safety instructions

EMC class

- ▶ This video recorder (DVR) is a class A device in accordance with EN 55022.
- This device may cause interference to other equipment in domestic use. In such cases the persons operating the DVR are required to provide appropriate countermeasures, for which they themselves bear the cost.

Importance of these Operating Instructions

- Please read the safety instructions and the other information contained in the Operating Instructions before connecting up and operating the DVR.
- ▶ The Operating Instructions should be kept in a safe place for later reference.

Ambient conditions for the DVR

- ▶ The DVR should be protected against excessive heat, dust, damp and vibration.
- ► The DVR may only be operated at temperatures between +5°C and +40°C, and up to a maximum air humidity of 90%.
- ▶ The DVR may only be operated indoors, and must be protected against incursion of water and damp.

Care of the DVR

- Never switch on the DVR when damp has penetrated it. In such cases, have the DVR checked by a qualified service engineer.
- ▶ Do not place any heavy objects on the DVR.
- Never cover over the DVR's vents.
- ▶ Never insert metal objects or any other items into the vents. This may permanently damage the DVR.
- The housing may only be opened by authorised persons. Repairs may only be carried out by qualified service personnel.
- ▶ The DVR must be disconnected from the power supply before its housing is opened.

Getting started with the DVR

When laying the connecting cables, make sure no weight is placed on them, that they are not kinked or damaged, and that no damp can penetrate them.

Cleaning the DVR

- ► The housing of the DVR may only be cleaned with a damp (not wet) cloth,
- Use only a mild detergent. Do not use solvent-containing detergents or petrol. This could permanently damage the surface finish.

Spare parts

▶ Use only original spare parts from Videor E. Hartig GmbH.

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Overview

Package contents

- · Digital video recorder (DVR)
- Mains power cord
- · Operating instructions
- RAS (Remote Administration System) software on CD
- · Operating instructions for RAS software on paper and CD
- Mounting kit for cabinet installation

Basic functions

- · Record video images using multiple cameras
- Event-based recording start
- Video playback
- · Search for specific video sequences

Features

- MPEG-4 compression / duplex mode
- 4 loop-through video channels / VGA, FBAS output
- · Audio and alarm inputs / outputs
- Max. recording speed: 100 field images per sec (PAL)
- Memory capacity 250 GB / 500 GB / 750 GB / 1000 GB
- Maximum video resolution 720 x 576 pixels
- · Archiving/image transfer via USB and DVD-RW
- Live picture & Playback Zoom (2x)
- · Integral Motion Detector
- Telemetry control functions via RS-485 port
- Network connection (Ethernet)

Requirements for operation

- Digital video recorder DLR3 connected
- · At least 1 camera (PAL) and 1 monitor connected.
- Mouse connected, if DVR is to be controlled by mouse

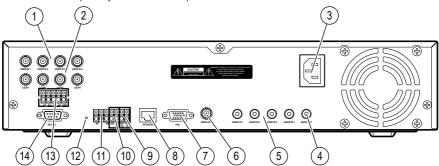
Note: Please refer to www.videor.com for further information.

Control options

- · Front panel
- Mouse
- WebGuard
- RAS program

Connections on the rear

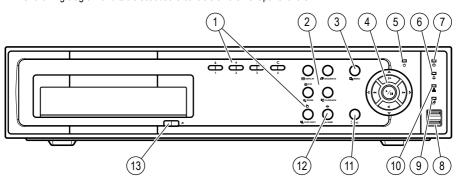
Note: Connections optionally for NTSC or PAL operation.



No.	Designation	Functions/connections	Example devices
1	VIDEO IN 1-4	Max. 4 video channels	Cameras
2	LOOP 1-4	Max. 4 loop-through video channels	Cameras
3	Power supply	Mains power connection	-
4	AUDIO OUT	Audio output	Amplifier, speakers
5	AUDIO IN 1 - AUDIO IN 4	Max. 4 Audio inputs	Microphone
6	VIDEO OUT	Video output	Monitor
7	VGA	PC monitor	PC monitor
8	NETWORK	Network	Network cable
9	/RX+, /RX-, TX+, TX-	External interface (RS-485)	Keyboard, PTZ camera
10	ARI/GND	Reset alarm with external signal	Switch
11	NO, C, NC	Alarm outputs for external devices	Siren, flashing light
12	Reset switch	Reset to factory defaults	•
13	Al1 - Al4	Alarm inputs for external devices	Sensors
14	RS-232C	External interface	Remote Control

Front panel controls

The following diagram and table set out the controls on the front panel of the DVR:



No.	Designation	Function	
1	1 to 4	Selecting the camera and inputting passwords (primary usage)	
	▲┆┡╓╩	PTZ camera functions (secondary assignment)	
2	SEQUENCE, DISPLAY, PTZ, ZOOM, PLAYBACK, CLIP COPY	Function buttons	
3	MENU	Open/quit menu structure	
4	▶ / ← ♦ ♦ ▶	Playback functions (primary assignment)	
4	Menu navigation Navigate and select within the menu structure (secondary ass		
5	Ф	Power-on indicator when DVR is in operation	
6	\Diamond	Display at alarm	
7	8	Indicates hard disk operation	
8	Connections	USB ports	
9	d	Indicates recordings being copied	
10	盎	Indicates Ethernet connection	
11	PANIC	Start/end panic recording	
12	ALARM	Reset alarmView event list	
13	≜	Open built-in DVD-RW writer	

Key to controls

Function buttons

Note: The secondary function assignment is accessed by holding down the key.

Element	Function
ð	Sequence On/Off
\blacksquare	Change display mode
(PTZ camera functions On/Off
⊕ ,	Zoom On/Off
₽	Start playback
間	Copying recordings

PTZ camera functions

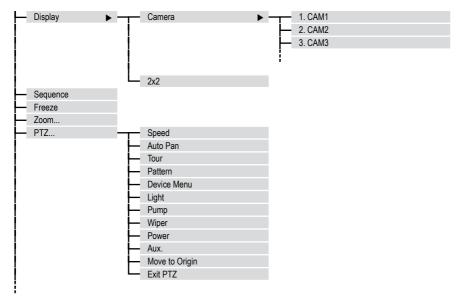
Element	Function
*	Zoom in
★	Zoom out
(>	Close-up
1	Wide-angle
վայ	Save preset
\$	Load preset

Playback functions

Element	Function
∢I	Frame-by-frame rewind
≪	Fast rewind
▶ /Ⅱ	Start/pause playback
>>	Fast forward
I ►	Frame-by-frame forward

Menu structure

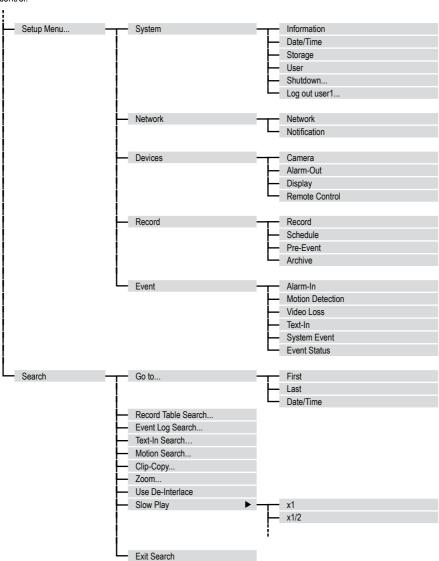
The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Note: The number of menu entries in the PTZ menus differs depending on the camera model selected.

Menu structure (continued)

The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Accessing the menus

Accessing the Display menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
1	Open Display menu	Device	\blacksquare
		Mouse	Display

Accessing the PTZ menu

Requirement:

- A PTZ camera is connected and configured.
- Current camera image is shown as a full image.

Step	Action	Access using	Key sequence/menu path
	Open PTZ menu	Device	⊕ > ■
1	Result: Menu of the configured PTZ camera is shown.	Mouse	PTZ

Accessing the menus, continued

Accessing the Setup menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
	Open Setup Menu	Device	
1	Result: Prompt for user name and password.	Mouse	Setup Menu
	Log in as user.		
	User name: admin		
2	Password: (blank)		
	Note: Use default access data only for first-time access.		

Accessing the Search menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
	Open Search menu	Device	Q > 🖺
1	Result: Search for recorded images is activated.	Mouse	Search

Getting started

Checklist for DVR operation

Step	Action	Menu path
1	Connect peripheral devices as per planned setup.	
2	Specify menu language.	Setup Menu > System > Information
3	Adjust date and time.	Setup Menu > System > Date/Time
4	Set up user.	Setup Menu > System > User
5	Set up network and desired notification channels (optional).	Setup Menu > Network >
6	Register peripherals with DVR.	Setup Menu > Devices >
7	Set up event types and associated responses.	Setup Menu > Event >
8	Set up recording parameters and schedule.	Setup Menu > Record >

Getting started (continued)

Switching on the DVR

Requirement:

- At least 1 camera (PAL) connected.
- The start-up preparations are complete.

Step	Action
1	Plug in DVR mains plug. Result: The video recorder starts up automatically, checking the connected video inputs.
2	Switch on monitor. Result: System is ready to use.

Switching off the DVR

Requirement:

You have accessed the Setup menu.

Step	Action	Menu path
1	Shut down the system. Result: System shuts down automatically.	Setup Menu > System > Shutdown
2	After shutdown, disconnect the mains plug.	

Administration

Saving your system setup

You can save your DVR's setup data, including its network configuration.

Requirement:

- · USB memory stick
- Software versions must be compatible

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Export your setup.	Setup menu > System > Information > Setup Export
3	Specify a file name.	
4	Export your setup.	Export

Loading your system setup

You can load your stored DVR system setup with or without its network configuration.

Requirement:

- USB memory stick with stored setup
- Software versions must be compatible

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Import your setup.	Setup menu > System > Information > Setup Import
3	Select the file name and, where appropriate, the network configuration.	
4	Import your setup.	Import

Administration (continued)

Deleting recordings

You can only delete all your recordings together. It is not possible to delete recordings from a specific time period.

Step	Action	Menu path
		Setup Menu > System > Information > Clear All Data
1	Delete all recordings.	or
		Setup menu > System > Storage > Information tab > Using > Clear

Downloading software updates

You can download software updates for your DVR from a USB memory stick.

Requirement:

• USB memory stick with latest software release

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Start update.	Setup Menu > System > Information > Upgrade
3	Install new release.	

Hiding from specific users

You can hide video images and camera data according to the preset user rights.

Step	Action	Menu path
1	Set camera Covert mode.	Setup Menu > Devices > Camera > Settings
2	Cancel 'Covert Camera View' access for specific users (groups).	Setup Menu > System > User

Administration (continued)

Restoring factory defaults

Before restoring the factory defaults, you should export your current system settings in case you need to reimport them later. (see Saving your system setup and Loading your system setup)

4 01 4 1 11 1	
1 Shut down the system.	
2 Disconnect the mains plug.	
Push a paper clip into the Reset button (on the rear of the DVR) and hold	it there.
4 Plug in the mains plug.	
Wait for all the LEDs to flash 5 times (about 30 seconds).	
6 Withdraw the paper clip.	

Administration (continued)

Determining the memory requirement of a recording

The amount of memory recorded video sequences will take up depends on the following factors:

- Picture quality
- number of images per second
- duration

The memory requirement for 1 camera is calculated by this formula:

Memory requirement = picture size x duration of recording x images per second

Calculation example: CIF resolution (PAL):

Picture	Picture Duration of size recording	Approx. memory space			
quality		recording	5 images/s	10 images/s	25 images/s
Low	2.4 kB	24 hours	1.04 GB	2.07 GB	5.18 GB
Standard	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
High	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
Very High	14.4 kB	24 hours	6.22 GB	12.44 GB	31.10 GB

Calculation example: 2CIF resolution (PAL):

Picture	Picture Duration of size recording	Approx. memory space			
quality		recording	5 images/s	10 images/s	25 images/s
Low	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
Standard	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
High	19.2 kB	24 hours	8.29 GB	16.59 GB	41.47 GB
Very High	28.8 kB	24 hours	12.44 GB	24.88 GB	62.20 GB

Searching for recordings

Find first stored recording



Find last stored recording



Find recording by date and time



Record table search

The search recording table shows a time beam of the recording time intervals of all cameras.



Event log search

The event log search enables you to search for events based on specific criteria, such as:

- · movements recorded by a specific camera
- · alarm from a specific alarm input
- · System events



Text-in search

The text-in search enables you to search for recordings based on specific text inputs.



Motion search

The motion search function can detect movements in recordings within defined zones for one camera. 2 types of motion search are possible:

- Motion search: Search for movement in a defined zone.
- Museum search: Search for movement of a defined object.



Copying recordings

Recordings can be written to a CD or copied to a USB memory stick.



Using record table search

Performing a record table search

Step	Action	Menu path	
1	Open record table search.	Search > Record Table Search	
ı	Result: The recording table (standard view) is displayed.	Search > Record Table Search	
2	Locate recordings.	D	
2	Result: The current seach position is shifted.		

Search		Record Table Search

Calendar Search...

Symbol	Meaning
×	Quit record table screen
1. CAM1	Camera name
	Hours display
I	Display of current search position
\$	Open expanded view
X	Open standard view
Q	Zoom in
Q	Zoom out
15	Display Calender Search >>
犀	Indicates search menu
	Search functions

Term	Symbol	Meaning
		Date displayGrey: No recording availableWhite: Recording available

Using event log search

Performing an event log search

Step	Action	Menu path
1	Open event log search. Result: The result of the last search is displayed.	Search > Event Log Search
2	Define criteria.	Option
3	Confirm input. Result: List of search results is displayed.	Search
4	Select desired entry from list.	

Search		
Term	Symbol	Meaning
From First	<u> </u>	Start date
To Last	✓	End date
Check Time Overlap	\checkmark	Activates a system prompt if there are multiple recordings for the same time range
Alarm-In		Alarm inputs in response to which a search for events is to start
Motion		Cameras on which to search for motion detection
Video Loss		Cameras on which to search for video loss
Text-In		Text input devices on which to search for events
Record Channels		Cameras on which to search for events
		Search for system events: Setup Menu > Event > System Event > Actions

Using text-in search

Performing a text-in search

Step	Action	Menu path
1	Open text-in search. Result: The result of the last search is displayed.	Search > Text-In Search
2	Define text inputs.	Option
3	Confirm input. Result: List of search results is displayed.	Search
4	Select desired entry from list.	

Using text-in search (continued)

Search \Box	Text-In Search	> Option	
Term	Symbol	Meaning	
From First	✓	Start date	
To Last		End date	
Channels		Text input devices on which to search for events	
		Type of text input:	
		Any Text-In Product	
		Generic Text	
		Epson	
No.	\bigcirc	Numbers of text elements to search for	
		Linking operator for different query conditions:	
		(blank)	
-		AND	
		OR	
Name		Text field by which the search should be made	
Comp.	•	Comparison conditions	
Value		Numerical value against which the comparison is to be made	
Column		Column number	
Line		Line number	
Χ		Delete search parameter	
+	•	▼ Add new set of search parameter	
Case Sensitive	\bigcirc	Makes search case-sensitive	
Load		Load saved search option settings	
Save		Save current search option settings	

Using motion search

Performing a motion search

Step	Action	Menu path
1	Display desired camera in single frame.	Display > Camera >
2	Open motion search.	Search > Motion Search
3	Enter settings for motion search.	Option
4	Confirm input. Result: List of search results is generated.	Search
5	Select desired entry from list.	

Search			
Term	Symbol	Meaning	
From First	<u> </u>	Start date	
To Last	<u> </u>	End date	
		Type of search:	
Туре	lacksquare	Motion Search Search for movement in a defined zone	
		Museum Search Search for movement of a defined object.	
Zone		Definition of motion-sensitive zones for motion search or museum search: See "Zone" on page 45.	
		Sensitivity of motion detection of:	
		1 (Dull)	
Sensitivity		2	
Sensitivity		3	
		4	
		5 (Sensitive)	
Min. Blocks		Motion search only (not museum search): Specify in how many motion-sensitive blocks motion must be detected as a minimum to trigger an alarm	

Copying recordings

Copying recordings to CD or USB memory stick

Step	Action	Menu path
1	Find desired recordings. Note: Make a note of the data of the recordings you want to copy.	Search >
2	Define settings.	Search > Clip-Copy
3	Start copying. Result: The recordings are copied.	Start

Clip-Copy	
Symbol	Meaning
	Record
<u> </u>	Start date
<u></u>	End date
<u> </u>	Assignment of cameras from which recordings are to be copied
	Use password, if desired
	Destination medium:
	Internal DVD-RW
	USB-CD-RW
	1. USB Storage
	2. USB Storage
	3. USB Storage
	Name of file on destination medium
	Copy status
	Symbol

Menu descriptions - Setup menu

The Setup menu has the following sub-menus:

System menu



On the "System" menu

- · the basic settings are made
- · users are administered
- the system is shut down.

Network menu



On the "Network" menu the network settings are made. Network access provides access to all the functions of the DVR via

- WebGuard, same access using Internet Explorer
- RAS (Remote Administration System), independent of Internet Explorer

The DVR can be configured so that alarms trigger a notification by e-mail or notify an RAS.

Devices menu



On the "Devices" menu the connected peripheral devices are configured. Possible peripherals are:

- Cameras
- · Microphones and speakers (through amplifier)
- · Sirens and signal lamps
- Monitors
- Remote control for PTZ

Record menu



On the "Record" menu the following settings are made:

- · Recording quality
- Timer control
- Duration of pre-event recording

Event menu

On the "Event" menu the following settings are made:



- Assignment of alarm inputs to alarms
- · Configuration of motion-sensitive zones individually for each camera
- Definition of text input device and assignment to alarms
- · Response to undesirable events

The event status is additionally displayed.

Setup menu

System - Information

On the "Information" menu

Setup Menu...

From

Clear All Data...

То

· basic information is entered and displayed

System

- · software updates are installed
- recorded data are deleted as required

Term	Symbol	Meaning
Site		Location of DVR
System ID		ID for remote keypad • The remote keypad and DVR must be set to the same ID.
Language	•	Menu language
Version		Version of DVR software
Upgrade		Starts installing latest version of software via USB port
Import		Import setup
Export		Export setup
Show System Log		Show log of all actions and events
Recorded Data		

Date of oldest recording

Date of newest recording

Deletes all stored data

Information

System - Date/Time

On the "Date/Time" menu

- time and date settings are made
- dates of public holidays are entered
- time synchronisation is configured.

Setup Menu	System \square	Date/Time Date/Time	
Term	Symbol	Meaning	
Date		Date	
Format	•	Date display format	
Time		Time	
Format	•	Time display format	
Time Zone	▼	Local time zone	
Use Daylight Saving Time	. 🗸	Activates use of summertime Daylight Saving Time	
Setup Menu	System	Date/Time	
Term	Symbol	Meaning	
No.		Number of entered public holiday	
Date		Date of each desired public holiday	
X		Delete holidays	
+		Set up holidays	
Setup Menu	System \Box	Date/Time Cync.	
Term	Symbol	Meaning	
Automatic Sync.	\checkmark	Activates synchronisation with time server	
Time Server		IP address or domain name of time server	
Interval	▼	Synchronisation interval	
Last Sync-Time		Time of last synchronisation	
Run as Server	\checkmark	Activates use of the DVR as the time server	

System - Storage

On the "Storage" menu the status and usage of the available storage media is displayed.

Setup Menu Sys	tem 🖒	Storage
Term	Symbol	Meaning
Туре		Type of storage medium
Capacity		Size of storage medium
Status		Status of storage medium >>
Information		Time range of recorded data >>
Format		Storage medium usage >>
□ Status		
Term	Symbol	Meaning
Disk Bad		Data carrier status
Temperature		Temperature status
S.M.A.R.T.		Result of S.M.A.R.T. check
☐ Information		
Term	Symbol	Meaning
From		Start date of recorded data
То		End date of recorded data
Clear		Delete all recordings

	Format
-	ı Ommat

Term	Symbol	Meaning	
Use as	•	Use of storage mediu	m:
		Record	
		Not using	
	otin	Activating permits:	
Partition		CD/DVD burn	Reserves a data buffer as a separate partition. This is essential for burning CD&DVDs, and must be activated for a storage medium with "Record" usage.
Format		Formatting deletes the recordings from the hard disk	

System - User

Clip-Copy

On the "User" menu the user groups and individual users are set up.

Setup Menu	stem 🖒	User	
Term	Symbol	Meaning	
Group & User, Group field		Assignment of group access privileges Table of possible group access privileges >>	
Group & User, User field		Set password	
+ Group		Add a new group	
+ User		Add a new user Set password	
Auto Login	•	User to be logged in automatically	
Auto Logout	•	Time after which logged-in user is automatically logged out	
Table of possible group access privileges Group access privilege Meaning			
Shutdown	May shut down the DVR		
Upgrade	May install a new firmware version		
System Time Change	May change the time setting		
Data Clear	May delete recording data		
	•	recording data	
Setup	May make o	changes anywhere on the Setup menu	
Setup Colour Control	•	•	
	May change	changes anywhere on the Setup menu	
Colour Control	May change	changes anywhere on the Setup menu e the picture settings PTZ cameras	
Colour Control PTZ Control	May change May control May reset a	changes anywhere on the Setup menu e the picture settings PTZ cameras	
Colour Control PTZ Control Alarm-Out Control	May change May control May reset a May view vi	changes anywhere on the Setup menu the picture settings PTZ cameras	
Colour Control PTZ Control Alarm-Out Control Covert Camera View	May change May control May reset a May view vi May interrog	changes anywhere on the Setup menu e the picture settings PTZ cameras larms deo images from covert cameras	

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May copy video images

System - Shutdown



System - Log out user1...

Setup Menu		System	$ \downarrow \rangle$	Log out user1
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Network

Network - Network

Setup Menu...

Remote Audio Channel

On the "Network" menu all settings required to ensure network access are made.

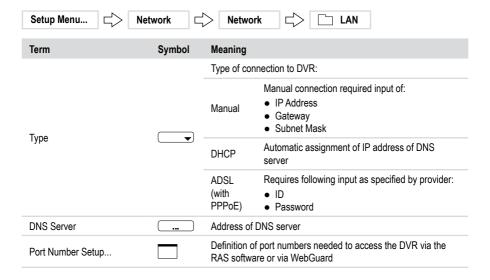
Term	Symbol	Meaning	
Transfer Speed		Transmission	n bandwidth:
		(bps)	bits per second
		(ips)	images per second
Quality		Quality of pic	cture transmission via network (PAL):
		Very High	14,4 kB/picture
	lacksquare	High	9,6 kB/picture
		Standard	4,8 kB/picture
		Basic	2,4 kB/picture
		Selecting Au	dio Channel

Select From RAS

1 - 4

Network

Network



Setup Menu	rk 🖒	Network DVRNS
Term	Symbol	Meaning
Use DVR Name Service	\checkmark	Enables the DVR name service
DVRNS Server		IP address or domain name of DVRNS server DVRNS = Digital Video Recorder Name Service
Port		Port for DVRNS
Use NAT	\checkmark	Enables NAT (Network Address Translation) use
DVR Name		Name by which the DVR is to be registered with the DVRNS server
Check		Check DVR name for usability after entering
Help Desk		Information from help desk if DVRNS setting correct
Setup Menu	ork 🖒	Network
Term	Symbol	Meaning
Use WebGuard Service	\checkmark	WebGuard Service activated
Port		Port for the WebGuard Service

Network - Notification

On the "Notification" menu the method of notification is defined.

Setup Menu	etwork	Notification
Term	Symbol	Meaning
Enable	\checkmark	Enables notification by e-mail
SMTP Server		IP address or domain name of SMTP server
Port		Port for SMTP server Default is port 25.
Use SSL/TLS	\checkmark	Activates the Encryption
Authentication		Login to SMTP server
Sender		E-mail address of sender
Recipient		E-mail address of recipient
Setup Menu	etwork	Notification
Term	Symbol	Meaning
LAN	\checkmark	Enables notification of an RAS via LAN
No.		Number of IP address
IP Address		IP addresses of RAS PCs
Retry	•	Number of notification attempts by the DVR in the event of an error

Devices - Camera

On the "Camera" menu the cameras are configured.

Setup Menu	□ □ Device	S Camera Settings	
Term	Symbol	Meaning	
No.	\checkmark	Activates the cameras	
Title		Name of camera	
		Visibility of recordings and camera data depending on user access privileges:	
		Normal All users see all camera data and all recordings	
Use	•	Covert1 Users without relevant access see camera title, status symbol, but no recordings	
		Covert2 Users without relevant access see only camera title, but no recordings	
Setup Menu Camera PTZ			
•			
Term	Symbol	Meaning	
Term No.	Symbol	Meaning Number of camera	
Term	Symbol	Meaning Number of camera PTZ camera type as per specified list	
Term No. Product	Symbol	Meaning Number of camera	
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera	
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras	
Term No. Product	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras Settings as specified by PTZ camera manufacturer:	
Term No. Product ID Port	Symbol	Meaning Number of camera PTZ camera type as per specified list Unique ID of PTZ camera Interface type of PTZ cameras Settings as specified by PTZ camera manufacturer: Baud Rate	

Devices - Audio

On the "Audio" menu the audio outputs are assigned to the cameras.

Setup Menu	evices	> Audio
Term	Symbol	Meaning
No.		Number of audio output
Associated Camera	•	Assignment of camera
Enable Audio-Out	\checkmark	Enables all audio outputs

Devices - Alarm-Out

On the "Alarm-Out" menu the alarm outputs are configured.

Setup Menu	Device	s		
Term	Symbol	Meaning		
Dwell Time	•	Duration of alarm signal		
No.		Number of schedule entry		
Day	•	Day of the week		
Range		Time range at 15-minute intervals		
		Response in defined period:		
Mode	•	Event Alarm in response to event		
Widde		On Continuous alarm		
		Off No alarm		
		Enable		
Alarm-Out		Alarm outputs internal beep by DVR		
X		Delete schedule entry		
+		Set up schedule entry		

Devices - Display

On the "Display" menu the mode of on-screen display is configured.

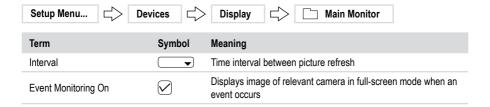
- "OSD" tab: Specify what additional information is displayed on-screen.
- "Main Monitor" tab: Specify how the camera images are displayed on the main monitor.

Setup Menu... Devices Display C OSD

NOTE:

With the DLR3-04 recorder, only one of the two principal monitor outputs can be used at once. If a VGA monitor is connected to the recorder, the FBAS output is automatically switched off. Consequently, switching is not possible. In the event that a VGA monitor which is connected is not automatically recognised, it can be activated manually by holding down the panic button for 5 seconds.

Term	Symbol	Displayed symbol	Meaning
Progress			Activates display of:
Zoom	\checkmark	•	Visible when Zoom mode enabled
Network	\checkmark	品	Visible when DVR operating in a network
Freeze & Sequence	\checkmark	\$ 4	FreezeVisible when Sequence mode enabled
Free Space	\checkmark	è	Visible when Recycle mode enabled Remaining hard disk capacity, if Recycle mode not selected
Date	\checkmark	-	Date
Time	\checkmark	-	Time
User Name	\checkmark	-	Display of user name
Camera			Activates display of:
No.	\checkmark	-	Display of camera number
Title	\checkmark	-	Display of camera title
Record	\checkmark	# 🖸 ⊙	Display of Record symbols
PTZ	\checkmark	PIZ	Visible when PTZ camera is displayed
Text-In	\checkmark	-	Display of character string
Display Dwell	•	-	Text In Dwell Time
Transparency		-	Transparency of menu screens
OSD Margin		-	Distance of displayed symbols from screen margin



Devices - Remote Control

On the "Remote Control" menu the remote control function is configured.

evices	> Remote Control
Symbol	Meaning
•	Interface type of remote control
	Setup as specified by manufacturer:
	Baud Rate
	Data Bit
	Stop Bit
	Parity
•	Remote control type as per specified list

Record - Record

On the "Record" menu the basic settings for recordings and their quality are made.

Setup Menu	ecord $ ightharpoonup$	Record
Term	Symbol	Meaning
Recycle	$\langle \rangle$	Enables automatic overwriting of the oldest recordings when the hard disk is full
•		Note: If not enabled, recording ends when the hard disk is full.
		Quality of recorded images
Devel Co.		Standard CIF
Resolution		High 2CIF
		Very High D1
Event Record Dwell	•	Duration of recording when an event occurs
Auto Deletion	-	Specify time after which automatically deleted
Use Panic Recording	\checkmark	Enables the panic recording function
		Duration of panic recording
Panic Recording Duration	•	No Limit End panic recording by pressing PANIC button
		xx min. Panic recording ends after preset time or by pressing PANIC button
ips	•	Number of recorded images per second in panic recording
Quality	•	Picture quality of the recorded images in panic recording

Record - Schedule

On the "Schedule" menu the schedule for recording is defined.



Term	Symbol	Meaning	
		Enables sche	edule entries
Schedule On	\checkmark		rding is made only if schedule entries are enabled. Ily panic recording is possible.
		Time schedul	le mode for events:
		Simple Mode	
	•	Advanced Mo	ode
		Note: All ever	nt and action states are reset when the mode is changed.
No.		Number of so	chedule entry
Day	•	Day of the we	eek
Range		Time range a	t 15-minute intervals
		Response:	
		No Record	-
		Time	Always record in the defined time slot in the quality set for "Time" mode
Mode	•	Event	Record only in case of event in the defined time slot in the quality set for "Event" mode
		Time & Event	Always record in the defined time slot in the quality set for "Time" mode, also in case of event in the defined time slot in the quality set for "Event" mode
Channels		Assignment of	of cameras to schedule
		Picture data	settings:
Settings		ips	Number of recorded images per second
		Quality	Picture quality of recorded images

Term	Symbol	Meaning	
X		Delete schedule entry	
+		Set up schedule entry	
		Picture da	ata defaults in Time and Event modes:
Default		ips	Number of recorded images per second
		Quality	Picture quality of recorded images

Record - Pre-Event

On the "Pre-Event" menu the settings for recording prior to the event are made.

Setup Menu	> Record \square	Pre-Event
Term	Symbol	Meaning
No.	\checkmark	Activates the cameras
ips	•	Number of recorded images per second prior to the event
Quality	•	Picture quality of the recorded images prior to the event
Dwell	•	Recording time prior to the event Note: The pre-event recording memory capacity is limited. Consequently, the maximum recording time prior to the event, the number of recorded images and picture quality are interdependent.

Event - Alarm-In

On the "Alarm-In" menu the alarm inputs and responses to events are configured.

Setup Menu	Event 🖒	Alarm-In
Term	Symbol	Meaning
No.	\checkmark	Enables the alarm inputs
Title		Name of alarm input
		Contact method of alarm input:
Туре	•	NO Normally Open
		NC Normally Closed
Setup Menu	Event	Alarm-In
Term	Symbol	Meaning
No.		Number of alarm input
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable alarm outputs internal beep by DVR
Alamiiout		These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
•		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings

Event – Motion Detection

On the "Motion Detection" menu the motion-sensitive zones are defined and responses to events configured.

Setup Menu	□ Event	Motion Detection			
Term	Symbol	Meaning			
No.	\checkmark	Enables motion detection for the camera			
		Sensitivity of motion detection:			
Sensitivity	•••	Daytime			
		Nighttime			
		Select the motion-sensitive blocks within the time slot Left mouse button functions: Click to select/deselect Click - hold down - drag to define a zone for selection/deletion/back			
		Right mouse button functions or menu in time slot to select blocks:			
Zone		Select Select complete row of blocks			
20110		Clear Clear selection of a row			
		Reverse Reverse selection of a row			
		Select All Select all blocks			
		Clear All Clear selection of all blocks			
		Reverse All Reverse selection of all blocks			
	Specify in how many motion-sensitive blocks motion must be detected as a minimum to trigger an alarm:				
Min. Blocks		Daytime			
		Nighttime			
Zone View	\checkmark	Mark the motion-sensitive zones (red in event of motion)			
Motion Ignoring		Time interval between 2 events logged as separate events:			
Interval		Never Each motion detection is logged as a separate event.			
Daytime Setup		Definition of "Daytime" time range			

Setup Menu	Event	Motion Detection
Term	Symbol	Meaning
No.		Number of alarm input
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
rtoury	• -	Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
PTZ	 •	Select PTZ cameras to record in event of alarm and select the desired settings

Event - Video Loss

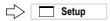
On the "Video Loss" menu checking for covert cameras and the responses to events are configured.

Setup Menu	Event 🖒	→ Video Loss
Term	Symbol	Meaning
		Sensitivity of check as to whether camera is covert:
Check Obscuration	-	Never not checked
		15 very sensitive
Setup Menu	Event 🖒	Video Loss
Term	Symbol	Meaning
No.		Number of covert camera
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out	🗸	Assign and enable • alarm outputs • internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
		Assign and enable notifications
		Mail
Notify		LAN 1 to LAN 5
•		Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
PTZ	 •	Select PTZ cameras to record in event of alarm and select the desired settings

Event - Text-In

On the "Text-In" menu the text input device is defined and the responses to text input are configured.

Setup Menu	Event 🖒	Text-In
Term	Symbol	Meaning
No.		Number of text input device
Setup		Configuration of text input >>
Title		Name of text input



Term	Symbol	Meaning
Port	•	Interface
		Setting as specified by manufacturer of text input device (ATM, cash-till etc.):
		Baud Rate
Setup		Data Bit
		Stop Bit
		Parity
		Type of text input:
Text-In Product	lacksquare	Generic Text
		Epson
Transaction Start		Character string with which text input must start for the DVR to respond
Any Character	\checkmark	DVR responds to any character
Transaction End		Character string with which text input must end for the DVR to respond
0 more line(s)		Enables recording of n more lines
Line Delimiter		Line delimiter as specified by the text input device manufacturer: ^J for LF or ^M for CR
Ignore String		Character string in the text input which the DVR is to ignore All transmittable character strings are specified by the text input device manufacturer.
Case Sensitive	\checkmark	Case sensitivity according to text input device manufacturer's specification
Time Out	•	Waiting time after the last string

Setup Menu	Event \Box	> Text-In
Term	Symbol	Meaning
No.		Number of alarm input
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out	V	Assign and enable alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
		Assign and enable notifications:
		Mail
Notify		LAN 1 to LAN 5
. today	V	Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings

Event - System Event

On the "System Event" menu the self-diagnostics and corresponding messages are configured..

Setup Menu	Event 🖒	System Event	\Rightarrow	Health Check
Term	Symbol	Meaning		
System	_	System self-diagnostic	cs interva	al
Check Recording		Setup Configuratio	n of sche	edule >>
Check Alarm-In	•	Interval for checking A	Narm Inp	uts
Setup				
Term	Symbol Me	eaning		
Schedule On	✓ Er	nables schedule entries		
No.	Nu	ımber of schedule entry	1	
Day	▼ Da	ay of the week		
Range	Til	me range at 15-minute i	ntervals	
Interval		necking interval		
X	De	elete schedule entry		
+	Se	et up schedule entry		
Setup Menu	Event	System Event	\Rightarrow	Storage
Term	Symbol	Meaning		
Disk Bad Notify	•	Percentage of bad ser is triggered	ctors on I	hard disk as from which an alarm
Disk Almost Full Notify	•	Percentage hard disk Almost Full" alarm is t		vailable as from which "Disk
Disk S.M.A.R.T.	•	Fahrenheit) for the da If the temperature limi	ta carrier t is excee d disk's t	nold (in degrees centigrade or S.M.A.R.T. test. eded an alarm is triggered. temperature limit refer to the

Setup Menu	Event	System Event	Actions
Term	Symbol	Meaning	
		Events (based on checks	s):
		System	System check failed
		Panic Record	Panic recording in progress
		Check Recording	Recording check failed
		Check Alarm-In	Check of alarm inputs failed
Event		Disk Almost Full	Preset limit value for hard disk capacity reached
		Disk Full	Hard disk full
		Disk Bad	Preset limit value for number of bad sectors reached
		Disk Temperature	Preset temperature limit reached
		Disk S.M.A.R.T.	S.M.A.R.T. check failed
Alarm-Out	<u></u>	Assign and enable alarm outputs internal beep by DVR Note: Not possible for sy	ystem event and panic recording
	Ø 2	Assign and enable notific	cations:
		Mail	
Notify		LAN 1 to LAN 5 (not in case of system event)
,		Alert Window (not in case of system event)
		The selected function mu Setup Menu > Network	

Event - Event Status

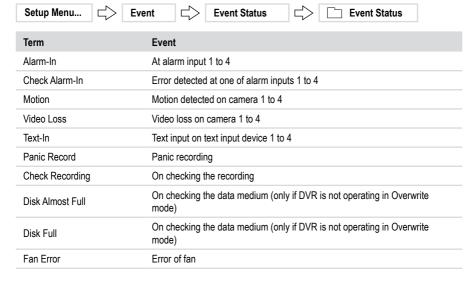
The "Event Status" menu indicates the status of all possible events:

- · Grey text: Event detection not enabled
- · White text: Event detection enabled
- Flashing border: Message acute event for 5 sec

Event

· Yellow field: Pending event

Setup Menu...



Term	Meaning
Туре	Memory type
Disk Bad	Data carrier status
Temperature	Data carrier status
S.M.A.R.T.	Result of S.M.A.R.T. check

Event Status

Storage

WebGuard - WebWatch controls

The following diagram and table set out the functions on the Web Watch:



No.	Designation	Function
1		WebGuard Logging out
2	(3)	Open Search (WebSearch)
3	DVR	Date/Time, IP Address, User Name
4		Image display modes
5	Camera image	Camera name, Enable Audio, Image Aspect Ratio, Deinterlacing, Anti-Aliasing
6	o to	Select cameras
	23	Image optimisation
7	②	PTZ camera functions
		Activate Alarm Outputs
8	国	Save current image as BMP or JPEG file
9	88	Set up image drawing mode
10	Display	Event log

WebGuard - WebSearch controls

The following diagram and table set out the functions on the Web Search:



No.	Designation	Function
1		WebGuard Logging out
2		Open Display (WebWatch)
3	DVR	Date/Time, IP Address, User Name
4	e e * * /	Zoom On/Off and image optimisation
5	Camera image	Camera name, Image Aspect Ratio, Deinterlacing, Anti-Aliasing
6		Playback functions
0		Playback fullctions
7		Image display modes
8	Time bar	Calendar search and event log
	•	Search for date/time
9	©	Calendar search
	ķ	Event Search
10	2	Reload recording data
11	88	Set up image drawing mode
		Save any video clip as an EXE file
12	口	Save current image as BMP or JPEG file
		Print image

Using WebGuard

WebGuard permits the following, using an Internet connection

- View current video images
- Search and view recorded records

Requirements:

- The Internet connection is set up and the WebGuard service is activated.
- A PC with Internet access to the DVR must be available.
- Internet Explorer must be installed on the PC.

Using WebGuard

Step	Action
1	Ask your System Administrator about the current access data.
2	Start Internet Explorer.
	Enter the following informations in the adress field:
•	- http://IP address:Port number (default port address 12088)
3	- http://DVRNS server address/DVR name
	- http://www.dvronline.net
4	Enter your User Name (admin), Password (default = blank) and if necessary the port addresses.
5	Select Login.
S .	Result: WebGuard window is opened.

Specifications DLR3-04/xxx

Model	DLR3-04N/250 (Additional models upon request)
EDP No.	72694
Video standard	PAL/NTSC (auto detection)
Remark	
Event logs	Unlimited number of entries for alarm/event/text messages, loss of signal
Security against unauthorised use	Key locking, 64 user groups with programmable access (up to 256 users)
Transmission rate	100 images per sec (PAL)
Alarm triggering	E-mail, pager, remote SW (RAS)
Alarm activation	Automatic multi-screen display of alarm images programmable
Remote Control	-
Text display interface	ATM/POS, 10 channels max.
Monitor display	Real-time playback: 25 field images per sec (PAL), 30 field images per sec (NTSC) per camera
Covert camera mode	Programmable
Time synchronisation	Network time log, network time server
System change log	Up to 5000 entries for login/logout, configuration changes, remote access, change of signal connection, disk read/write errors
Zoom function	2x
Playback	Full image and quad image
Post-alarm recording	Up to 15 minutes
VGA	-
Control interface	RS-485 port for PTZ control (verified logs: eneo-Fastrax, Pelco P/D) or keyboard connection for remote control
Activity detection	Programmable 16 x 12 (192) grid, 5 sensitivity settings
Simplex/Duplex/Triplex/ Pentaplex mode	Duplex
Video inputs	1x 1 Vp-p, (F)BAS, 75 Ohm, BNC, loop-through
Spot monitor	no
Video output	1x 1 Vss, (F)BAS, 75 Ohm, BNC
Audio input	4x amplifier input, cinch
Audio output	1x amplifier output, cinch
Resolution	720 x 576 pixels (display)
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times
Recording speed	100 field image per sec at CIF resolution (336 x 272 pixels/PAL), 50 field image per sec at 2CIF resolution (672 x 272 pixels/PAL), 25 field image per sec at D1 resolution (672 x 544 pixels/PAL)

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Specifications DLR3-04/xxx, continued

Model	DLR3-04N/250 (Additional models upon request)
Picture size	Basic: 2/2.4 kB; Standard: 4/4.8 kB; High: 8/9.6 kB; Very high: 12/14.4 kB (NTSC/PAL). 2 times larger in High Resolution mode
Hard disk capacity	250 GB SATA hard disk, expandable to as many as 2 internal hard disks Models with higher hard disk capacity upon request
Playback speed	100 field image per sec at CIF resolution (336 x 272 pixels/PAL) and Duplex
Export of picture data	via USB 2.0, CD writer. Network data export: Clip Player, AVI, JPG, BMP
Alarm inputs	4x TTL, programmable as NC/NO (terminal strip)
Alarm outputs	1x directional contact (terminal strip)
Alarm reset	1x TTL (terminal strip)
Alarm messages	System error, hard disk error
Pre-alarm recording	Up to 30 minutes
Recording medium	SATA hard disks, built-in DVD-RW writer
Archiving	-
Menu languages	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian
Ethernet port	10Base-T, 100Base-TX, RJ-45
Remote software	For remote administration and image search function (RAS plus included)
Ports	2x USB, 1x RS-485, 1x RS-232 (remote control/configuration)
Power Supply	100 VAC ~ 230 VAC, 50/60 Hz
Power consumption	approx. 150 W
Temperature range	5°C to 40°C
Housing	Metal with plastic front panel
Colour	Pantone 427C
Dimensions (H x W x D)	88 x 430 x 393 mm
Weight	approx. 6.3 kg

Note: Please refer to www.videor.com for further information.

Accessories

EDP No.	Short description
74088	System keyboard with 3-axis joystick
74092	System keyboard with joystick, 5" monitor
71902	USB mouse for DVR series DXR, DLR3
on request	Hard disks with different storage capacities

Note: Please refer to www.videor.com for further information.

Supported PTZ cameras

Manufacture	Designation
Manufacturer	Designation
Costar	CDC 2500
Dyna Color	CDC2400
Chilsung	CRD-J6416
Fine	CRR-1660s
Pelco	D-log
Dennard	Dennard2060
Tokina	DMP-1223
Dongyang Unitech	DRX-500
Dongyang	DY-255RXC
Sensormatic	Delta Dome II/Ultra IV
Eneo	Fastrax
Eneo	Fastrax FIIE
Philips	G3 Basic AutoDome
LG Honeywell)	GRU604A
JVC	TK-S576
Sensormatic	Ultra VI
Canon	VC-C4
Canon	VC-C50i
Inter-M	VRX-2201
Vicon	Vicon
Hitron	22x AF Zoom
360Vision	VisionDome
Panasonic	WJ-SX550A
Panasonic	WV-CS850/854
CBC	ZC-SD622J
Samsung	Zoom Camera
Honeywell	HDC-655
LG Honeywell	HSD-25X
Honeywell	HSDN-251
Idis	IRX-100
Ultrak	KD6
Ultrak	KD6 Z-series
Kalatel	KTD-312
LG	LPT-A100L
	Novus-C

Manufacturer	Designation
Samsung	MRX-1000
Ademco Video	Orbiter Microsphere
SysMania	ORX_1000
Linlin	PIH-717
ELMO	PTC-200C/CVAS
ELMO	PTC-250C
Pacom	Pacom 2036
Dongyang	Power Controller
Sungjin	Receiver/MPU
Costar	SIC722V
Samsung Techwin	SPD 1600
Samsung	Samsung Dome
Pelco	Spectra Dome
Samsung Techwin	SRX-100B
Hitron	Speed Dome

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Notes on disposal

Correct disposal of this DVR



WEEE (Waste Electrical & Electronic Equipment)

Applicable in the member states of the European Union and other European countries with a separate collection system

The marking on the DVR and on the documentation stipulates that it must not be thrown away in normal domestic waste at the end of its useful life.



General rules

- Avoid uncontrolled waste disposal: Please dispose of this DVR separately from other waste, so as to avoid posing a hazard to the environment and to human health.
- ▶ Recycle the DVR in order to aid the sustainable reuse of material resources.

Private users

► Contact the retailer from whom you purchased the DVR or your competent local authority to find out how you can recycle the DVR in an environmentally friendly way.

Commercial users

► This DVR must not be thrown away with trade waste. To clarify the conditions of disposal, check your purchase contract or contact your supplier.



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